

Section-by-Section Analysis of H.R. 610, the Energy Research, Development, Demonstration, and Commercial Application Act of 2005

Sec. 1. Short Title; Table of Contents

Short Title: “Energy Research, Development, Demonstration, and Commercial Application Act of 2005”

Subsection (b) contains the table of contents for the Act’s 10 titles.

Sec. 2. Definitions

Defines terms used in the Act.

TITLE I —SCIENCE

Sec. 101. Office of Science Programs

Authorizes Office of Science programs in high energy physics, nuclear physics, biological and environmental research, basic energy sciences, advanced scientific computing research, and fusion energy sciences. It also provides for facilities and infrastructure support and activities in education, outreach, information, analysis and coordination. This section also requires the Secretary to construct and operate a Rare Isotope Accelerator (RIA). Total RIA construction costs are capped \$1.1 billion (B) and construction must commence no later than September 30, 2008.

Sec. 102. Systems Biology Program

Authorizes a program in Systems biology including genetics, protein science, and computational biology. Directs the program to identify biological processes that could be developed for energy- and environment-related applications. Prohibits the program from conducting biomedical research or research on human cells.

Sec. 103. Catalysis Research and Development Program

Authorizes a catalysis science program, including catalyst design and synthesis using experimental approaches, as well as computational design at the nanoscale.

Sec. 104. Hydrogen

Authorizes fundamental research and development (R&D) within the Office of Science to support the hydrogen program described in Title VII.

Sec. 105. Advanced Scientific Computing Research

Authorizes an advanced scientific computing research program including activities authorized in the Department of Energy High-End Computing Revitalization Act of 2004, and research in applied mathematics.

Sec. 106. Fusion Energy Sciences Program

Directs DOE to develop a program and submit a fusion energy science research plan to Congress. Authorizes the Secretary to join the international fusion experiment known as ITER, and mandates that any agreement between U.S. and its international partners must meet specific requirements to protect U.S. economic and scientific interests. The restrictions on any possible agreement are enforced by prohibiting U.S. funding for ITER construction until the Secretary has submitted to Congress the research plan, the international agreement for U.S. participation in ITER, a description of ITER's management structure, and a report describing how ITER will be funded without reducing funding for other programs, including other fusion programs, in the Office of Science. Provides for a domestic magnetic fusion burning plasma experiment if the Secretary determines that construction and operation of ITER is unlikely or infeasible.

Sec. 107. Science and Technology Scholarship Program

Creates a program in which students receive scholarships in exchange for a commitment to work for DOE upon completion of their degrees. Scholarship recipients are obligated to work two years for each year of scholarship they receive.

Sec. 108. Office of Scientific and Technical Information

Requires the Secretary to maintain the Office of Scientific and Technical Information.

Sec. 109. Authorization of Appropriations

Authorizes \$23.7 B for fiscal years (FY) 2006-2010 for the Office of Science. From this amount, \$1.65 B is allocated for advanced scientific computing research, \$1.82 B for fusion energy sciences, \$8.4 million (M) for the science and technology scholarship program and \$39 M for the Office of Scientific and Technical Information.

TITLE II—RESEARCH ADMINISTRATION AND OPERATIONS

Sec. 201. Cost Sharing

Requires minimum non-Federal contributions of 20 percent of the cost of R&D, and 50 percent for demonstration and commercial application projects. Allows the Secretary to

reduce these requirements based on either technical barriers or the nature of the research being sponsored (fundamental, inherently non-proprietary research).

Sec. 202. Reprogramming

Requires the Secretary to report to Congress 60 days after appropriations are enacted describing how appropriated funds will be distributed under this authorization. Requires 30-day Congressional review for any Departmental request that exceeds 2 percent or \$2 million to move money between programs.

Sec. 203. Merit-Based Competition

Requires all funding under this Act be competitively awarded after an impartial merit review. The Secretary may restrict competitions to certain classes of recipients (e.g. universities, national laboratories) but must notify Congress within 30 days if a competition is run within only one class of recipients or if the Secretary waives the competition requirement for any solicitation.

Sec. 204. External Technical Review of Departmental Programs

Requires the Secretary to establish new or designate existing advisory committees to review the programs for energy efficiency R&D, renewable energy R&D, nuclear energy R&D and fossil energy R&D. For the Office of Science, it requires that the Secretary maintain existing scientific program advisory committees, report to Congress on any plans to change these committees' membership requirements, and create a new overall science advisory committee that includes members from the existing committees. Requires a National Academy of Sciences review and assessment of all the programs under this Act.

Sec. 205. Competitive Award of Management Contracts

Requires competitive award of management and operations contracts for non-defense National Laboratories unless the Secretary provides a waiver and Congress is notified two months in advance.

Sec. 206. National Laboratory Designation

Prohibits the Secretary from designating any new National Laboratories.

Sec. 207. Report on Equal Employment Opportunity Practices

Requires the Secretary to submit to Congress a comprehensive report on equal opportunity practices at the National Laboratories.

Sec. 208. User Facility Best Practices Plan

Requires the Secretary to submit a plan to Congress describing how each new user facility will provide appropriate staff to support a wide range of users; a fair method for allocating time to users; and safe and fiscally prudent operations.

Sec. 209. Support for Science and Energy Infrastructure and Facilities

Requires the Secretary to develop and implement a strategy for maintaining, closing, modifying, or constructing infrastructure and facilities at each non-military National Laboratory and Department research facility, and to transmit to Congress a summary of this strategy not later than June 1, 2007.

Sec. 210. Coordination Plan

Requires the Secretary to develop a plan to improve coordination and collaboration for all research, development, demonstration and commercial application activities among the Office and Science and the applied programs at the Department.

Sec. 211. Availability of Funds

Requires that if funds appropriated for activities under this title remain unused after three years, the funds must be returned to the Treasury.

TITLE III—ENERGY EFFICIENCY

Subtitle A—Vehicles, Buildings and Industries

Sec. 301. Programs

Authorizes energy efficiency R&D programs related to vehicles, buildings, and industrial energy use. Requires the Secretary to transmit to Congress a report containing quantifiable 5-year cost and performance goals for these programs, and annual reports describing progress in achieving these goals.

Sec 302. Vehicles

Authorizes R&D programs on advanced technologies to improve the energy efficiency and environmental performance of light-duty and heavy-duty vehicles.

Sec 303. Buildings

Authorizes a program of R&D to improve the energy efficiency of buildings. The program is required to use a whole-buildings approach, integrating work on elements including advanced controls, building envelope, building systems components and onsite generation of renewable energy. It also authorizes a Next Generation Lighting Initiative

and to establish a pilot grant program for the demonstration of advanced energy efficiency technologies for buildings.

Sec 304. Industries

Authorizes R&D programs to improve the energy efficiency, environmental performance and process efficiency of major energy-consuming industries, including advanced control technologies for electric motors. Reauthorizes the *Steel and Aluminum Energy Conservation and Technology Competitiveness Act of 1988*.

Sec. 305. Demonstration and Commercial Application

Requires the Secretary to promote demonstration and commercial application of innovative, cost-effective energy efficiency technologies, including through grants to non-profit institutions, State and local governments, universities, or consortia for Advanced Energy Technology Transfer Centers. The Secretary is required to report to Congress on the results of these activities.

Sec 306. Secondary Electric Vehicle Battery Use Program

Authorizes an R&D program to facilitate the reuse of batteries from electric vehicles for other purposes, such as bulk power and commercial power storage.

Sec. 307. Definitions

Defines “cost-effective” for the purposes of this title.

Sec 308. Authorization of Appropriations

Authorizes \$4.0 B for the energy efficiency R&D programs under this subtitle for FY 2006-2010. Of this amount, \$1.36 B is allocated for Vehicles; \$830 M for Buildings, including \$50 M for the Energy Efficient Building Pilot Grant Program; \$715 M is for Industrial Technologies, including \$6 M for an Electric Motor Control Technology Program; \$50 M is for Demonstration and Commercial Application; and \$32 M is for a Secondary Electric Vehicle Battery Program.

Sec 309. Limitation on Use of Funds

Prohibits the use of any of the funds authorized under this subtitle for programs funded under other authorities.

Subtitle B—Distributed Energy and Electric Energy Systems

Sec 321. Distributed Energy

Authorizes an R&D program to improve grid reliability technologies, and on systems to improve the reliability and efficiency of distributed energy resources. Requires the Secretary to make competitive merit-based grants to consortia for the development of residential combined heat and power technologies.

Sec 322. Electricity Transmission and Distribution and Energy Assurance

Authorizes an R&D program on advanced control devices to improve the energy efficiency and reliability of the electric transmission and distribution systems.

Sec 323. Authorization of Appropriations

Authorizes \$1.25 B for the Distributed Energy and Electric Energy Systems programs for FY 2006-2010, including \$40 M for Micro-cogeneration and \$745 M for Electricity Transmission and Distribution and Energy Assurance.

TITLE IV – RENEWABLE ENERGY

Sec. 401. Findings

This section contains the findings of Congress with respect to the relationship between United States investment in renewable energy and competitiveness in the world market, job impacts, energy security and reliability, and environmental impacts.

Sec. 402. Definitions

Defines “biobased product” and “cellulosic biomass” for the purposes of this title.

Sec. 403. Programs

Authorizes renewable energy R&D programs with the objectives of increased conversion efficiency, decreased generation and delivery costs, promotion of energy supply diversity, improved United States energy security and environmental sustainability. Requires the Secretary to transmit to Congress a report containing quantifiable 5-year cost and performance goals for these programs, and thereafter annual reports describing progress in achieving these goals.

Sec. 404. Solar

Authorizes R&D programs for solar energy, including for photovoltaics, heating, and concentrating solar power. Requires the programs to focus on the integration of

photovoltaic technologies into buildings and manufacturing techniques for the production of low-cost, high-quality solar systems.

Sec. 405. Bioenergy Programs

Authorizes R&D programs for cellulosic biomass, including for the production of heat, electricity, fuels and biobased products. Establishes, in partnership with industry, a biomass integrated refinery demonstration program consisting of at least 5 integrated biorefineries.

Sec. 406. Wind

Authorizes R&D programs for wind energy, including offshore wind energy, low speed wind energy, testing and verification, and distributed wind energy generation. Requires the Secretary to construct a wind turbine test facility.

Sec. 407. Geothermal

Authorizes an R&D program for geothermal energy, focusing on developing improved and low-cost technologies for geothermal installations.

Sec. 408. Photovoltaic Demonstration Program

Establishes a grant program to States for the demonstration of advanced photovoltaic solar energy technology. All states that meet the requirements of the program are eligible to receive funding. States are required to award funds in a competitive allocation to eligible recipients and to require a contribution of at least 60 percent per award from non-Federal sources. No award may be more than \$1 million, and unexpended funds will be returned to the Treasury after 3 years. The Secretary is required to report to Congress on the costs and results of this program after 5 years.

Sec. 409. Additional Programs

Authorizes R&D programs for ocean energy (including wave energy), kinetic hydro turbines, and the combined use of renewable energy technologies with other energy technologies. Requires the Secretary to commission a National Academy of Sciences study on renewable generation of ocean energy including wave, tidal, current and thermal energy.

Sec. 410. Analysis and Evaluation

Requires the Secretary to conduct analysis and evaluation in support of renewable energy programs under this title for guiding budget and program decisions.

Sec. 411. Authorization Of Appropriations

Authorizes \$3.91 B for FY 2006-2010 to carry out all activities under this title. Of these funds, \$990 M is allocated for the solar programs in section 404, \$1.51 B is for the bioenergy program in section 405, including \$750 M for the biorefinery demonstration program, \$310 M is for the wind program in section 406, including \$41 M for the wind facility, \$150 M is for the geothermal program in section 407, and \$800 M is for the photovoltaic demonstration program in section 408.

TITLE V—NUCLEAR ENERGY PROGRAMS

Sec. 501. Definition

Defines “junior faculty” for the purposes of this title.

Sec. 502. Programs

Authorizes civilian nuclear energy research, development, demonstration and commercial application programs with the objectives of promoting the viability of nuclear energy, reducing the likelihood of nuclear proliferation, maintaining excellence in nuclear research at universities and the National Labs, maintaining state-of-the-art nuclear research facilities and infrastructure, supporting industry and reducing environmental impacts. Requires the Secretary to transmit to Congress a report containing quantifiable 5-year cost and performance goals for these programs, and thereafter annual reports describing progress in achieving these goals.

Subtitle A—Nuclear Energy Research Programs

Sec. 511. Advanced Fuel Recycling Program

Authorizes a R&D program on nuclear fuel recycling technologies that would reduce the risk of nuclear proliferation, and minimize environmental and public health and safety impacts.

Sec. 512. University Nuclear Science and Engineering Support

Requires the Secretary to support new and existing programs to promote university research and education in nuclear engineering, including supporting university research reactors.

Sec. 513. University-National Laboratory Interactions

Establishes a fellowship program for professors to spend time at the National Labs in the areas of nuclear science and technology and for National Lab staff to spend time in related departments at universities.

Sec. 514. Nuclear Power 2010 Program

Requires the Secretary to carry out a Nuclear Program 2010 Program to encourage industry to license and deploy a new power plant by 2010.

Sec. 515. Generation IV Nuclear Energy Systems Initiative

Requires the Secretary to carry out a Generation IV Nuclear Energy Systems Initiative, an R&D program for passively safe, proliferation-resistant nuclear plant designs.

Sec. 516. Civilian Infrastructure and Facilities

Requires the Secretary to operate and maintain infrastructure and facilities to support nuclear energy research, development, demonstration and commercial application.

Sec. 517. Nuclear Energy Research and Development Infrastructure Plan

Requires the Secretary to develop a plan for facilities improvements and investments that will be required to establish the programs under this title as among the best in the world in nuclear research.

Sec. 518. Idaho National Laboratory Facilities Plan

Requires the Secretary to develop a plan for the facilities at the Idaho National Laboratory, taking into account resources at other National Laboratories.

Sec. 519. Authorization of Appropriations

Authorizes \$2.25 B for FY 2006-2019 to carry out the activities under this subtitle. Of those funds, \$244 M is allocated for university support described in section 512.

Subtitle B—Next Generation Nuclear Plant Program**Sec. 531. Definitions**

Defines “demonstration plant,” “construction,” and “operation” for the purposes of this subtitle.

Sec. 532. Next Generation Nuclear Power Plant

Authorizes a program of research, development, demonstration and commercial application of advanced nuclear reactor technology. The objective is to design and demonstrate the next generation of nuclear fission power plant.

Sec. 533. Advisory Committee

Requires the Secretary to appoint an advisory committee for the Next Generation Nuclear Power Plant program.

Sec. 534. Program Requirements

Describes the requirements for the program under this subtitle, including the requirements for program elements, partnerships, plans for construction and operation, international collaboration and program plan.

Sec. 535. Authorization of appropriations

This section authorizes \$750 M for FY 2006-2010 to carry out the activities under this subtitle, in addition to such sums as necessary with a limit of \$500 M for construction activities.

TITLE VI—FOSSIL ENERGY

Subtitle A – Research Programs

Sec. 601. Enhanced Fossil Energy Research and Development Programs

Authorizes programs, to be run in conjunction with industry, of fossil energy research, development, demonstration and commercial application programs, including for coal, oil, natural gas, transportation fuels and fuel cells. The objectives of these programs shall include increasing the conversion efficiency of all forms of fossil energy, decreasing costs, promoting diversity of energy supply, improving U.S. energy security and reducing environmental impacts. Requires the Secretary to transmit to Congress a report containing quantifiable 5-year cost and performance goals for these programs, and thereafter annual reports describing progress in achieving these goals.

Sec. 602. Fossil Research and Development

Authorizes a program of fossil energy research, development, demonstration and commercial application to reduce emissions from fossil fuel, including from coal-based products, through the development of advanced technologies by 2015.

Sec. 603. Oil and Gas Research and Development

Authorizes a program of oil and gas research, development, demonstration and commercial application to advance the science and technology available to domestic petroleum producers.

Sec. 604. Transportation Fuels

Authorizes a program of transportation fuel research, development, demonstration and commercial application to increase the price elasticity of oil supply and demand.

Sec. 605. Fuel Cells

Authorizes R&D programs on fuel cells for low-cost, high-efficiency fuel-flexible, modular power systems. Requires a demonstration of fuel cell proton exchange membrane technology for various applications.

Sec. 606. Authorization of Appropriations

Authorizes \$3.1 B for FY 2006-2010 to carry out the fossil energy programs described in this subtitle.

Subtitle B – Ultra-Deepwater and Unconventional Natural Gas and Other Petroleum Resources

Sec. 611. Program Authority

Authorizes programs on ultra-deepwater and unconventional natural gas and other petroleum resource exploration, production and environmental mitigation. Limits the programs to work in areas currently eligible to be leased for exploration and requires consultation with the Secretary of the Interior. Requires a study to determine if methane hydrates research should be carried out under this Act.

Sec. 612. Ultra-Deepwater Program

Describes how the ultra-deepwater program should be carried out, assigning responsibilities to the Secretary and a private consortium that may be selected by the Secretary to help manage the program. Establishes procedures to address conflicts of interest.

Sec. 613. Unconventional Natural Gas And Other Petroleum Resources Program

Requires the Secretary to establish a separate R&D program for onshore unconventional oil and gas exploration for resources in economically inaccessible areas.

Sec. 614. Additional Requirements for Awards

Establishes requirements for applicants to the ultra-deepwater program to describe the intended commercial use of any technology to be demonstrated under the Act, and provides flexibility concerning the location of demonstration projects in deepwater depths of less than 1,500 meters and allows reduction of cost sharing for independent producers.

Sec. 615. Advisory Committees

Requires the Secretary to establish two separate advisory committees for ultra-deepwater and unconventional resource programs and specifies their duties and compensation levels for their members.

Sec. 616. Limits on Participation

Limits participation in the program to U.S. companies or foreign companies that are based in countries that allow reciprocity.

Sec. 617. Sunset

Terminates the ultra-deepwater and unconventional research programs on September 30, 2015.

Sec. 618. Definitions

Defines “deepwater,” “independent producer of oil and gas,” “program consortium,” “remote or inconsequential,” “small producer,” “ultra-deepwater,” “ultra-deepwater architecture,” “ultra-deepwater technology,” and “unconventional natural gas and other petroleum resources” for the purposes of this subtitle.

Sec. 619. Funding

Establishes in the Treasury an Ultra-Deepwater and Unconventional Natural Gas and Other Petroleum Resources Fund, including a mandatory provision that requires, after other obligations, \$750 million of Federal oil and gas royalty funds, and authorizes appropriations of \$250 million to be used for ultra-deepwater and unconventional oil and gas research.

TITLE VII—HYDROGEN

Sec. 701. Definitions

Defines “advisory committee,” “fuel cell,” “infrastructure,” and “light duty vehicle” for the purposes of this title.

Sec. 702. Plan

Requires the Secretary to submit a detailed plan to Congress describing the program's research agenda, the technical milestones used to evaluate the performance of the program, and the role that national laboratories, universities, small businesses and other partners will play.

Sec. 703. Programs

Authorizes a research, development, demonstration, and commercial application program for hydrogen-powered fuel cell vehicles and the refueling infrastructure to support them, with the goal of enabling the automotive industry to make a decision to bring such vehicles to market by 2015. Specifies activities related to hydrogen production, delivery, and storage and the development of fuel cell technologies and the necessary codes and standards. Establishes project selection criteria for a hydrogen demonstration program. Requires a competitive merit review process and specifies cost sharing requirements.

Sec. 704. Interagency Task Force

Establishes an interagency task force, chaired by the Secretary, to assist in the implementation of the hydrogen program.

Sec. 705. Advisory Committee

Establishes an advisory committee, comprising representatives from domestic industry, academia, professional societies, government agencies and other organizations, to provide advice to the Secretary.

Sec. 706. External Review

Requires a competitively selected non-governmental body, such as the National Academy of Sciences, to review the program's research plan and conduct a biennial review of the progress made by the program.

Sec. 707. Miscellaneous Provisions

Requires the Secretary to avoid unnecessary duplication when carrying out the activities under this Act, authorizes the Secretary to enter into cost-sharing agreements with other governments, authorizes the Secretary to represent the United States, and provides that nothing in the Act alters the Department's regulatory authority.

Sec. 708. Savings Clause

Clarifies that nothing in this title shall be construed to affect the authority of the Secretary of Transportation with respect to vehicles or transportation regulations of any type, or research activities supported by the Department of Transportation.

Sec. 709. Authorization of Appropriations

Authorizes \$2.15 B for the program for FY 2006-2010.

TITLE VIII—ADVANCED VEHICLES**Subtitle A – Pilot Program****Sec. 801. Definitions**

Defines “alternative fueled vehicle,” “fuel cell vehicle,” “hybrid vehicle,” “neighborhood electric vehicle,” “ultra-low sulfur diesel vehicles,” and “pilot program” for the purposes of this subtitle.

Sec. 802. Pilot Program

Establishes a competitive grant program to provide not more than 15 geographically dispersed demonstration projects for state and local governments or metropolitan transportation authorities. Grants can be utilized for the demonstration of alternative fueled vehicles, fuel cell vehicles, hybrid vehicles, ultra-low sulfur diesel vehicles and infrastructure associated with alternative fueled, fuel cell and hybrid vehicle projects. Establishes additional requirements for grants.

Sec. 803. Reports to Congress

Requires the Secretary to issue a report to Congress on the grants in Sec. 802 as well as evaluations of the effectiveness of the program.

Sec. 804. Authorization of Appropriations

Authorizes \$200 M to carry out subtitle A, to remain available until expended.

Subtitle B—Clean School Buses**Sec. 811. Definitions**

Defines “Administrator,” “alternative fuel,” “alternative fuel school bus,” “emissions control retrofit technology,” “idling,” “ultra-low sulfur diesel fuel” and “ultra-low sulfur diesel fuel school bus” for the purposes of this subtitle.

Sec. 812. Program for Replacement of Certain School Buses with Clean School Buses

Establishes a program for awarding grants to eligible recipients for the demonstration and commercial application of alternative fuel school buses and ultra-low sulfur diesel fuel school buses. Use of funds for alternative fuel infrastructure is limited to 25 percent of the price of the alternative fuel school buses acquired. To carry out this section, \$110 M is authorized for FY 2006-2007.

Sec. 813. Diesel Retrofit Program

Requires the Secretary and the Administrator of the Environmental Protection Agency to establish a pilot program for awarding grants to eligible recipients for the demonstration and commercial application of retrofit technologies for ultra-low sulfur diesel school buses. To carry out this section, \$55 M is authorized for FY 2006-2007.

Sec. 814. Fuel Cell School Buses

Requires the Secretary to establish a program to enter into cooperative agreements for the development and demonstration of fuel cell-powered buses. Cost sharing under this provision is specified with regard to infrastructure and demonstration activities. To carry out this section, \$25 M is authorized for FY 2006-2008.

Subtitle C—Fuel Cell Transit Bus Demonstration**Sec. 821. Fuel Cell Transit Bus Demonstration**

Requires the Secretary to establish a transit bus demonstration program to demonstrate not more than 12 fuel cell transit buses (and necessary infrastructure) in three geographically dispersed localities. To carry out this section, \$50 M is authorized for FY 2006-2010.

TITLE IX—CLEAN COAL**Sec. 901. Authorization of Appropriations**

Authorizes \$1.4 B for a Clean Coal Power Initiative at the Department for FY 2006–2012. Requires the Secretary to transmit a report, including a ten-year research plan, to Congress regarding certain implementation activities.

Sec. 902. Project Criteria

Establishes technical criteria that are to be required for projects funded under the Clean Coal Power Initiative. Requires that the Secretary, in consultation with certain parties, set technical milestones specifying the emissions levels that projects must be designed to and

reasonably expected to achieve. Establishes financial assistance criteria applicable to projects, and limits the Federal share of a project to not more than 50 percent of the cost of a project. Provides for environmental criteria by clarifying the manner in which technology used at, or emissions reduction levels achieved by, facilities receiving assistance under title V are treated under sections 111, 169, and 171 of the Clean Air Act.

Sec. 903. Report

Requires the Secretary, in consultation with other appropriate agencies, to transmit a report to Congress on the technical milestones and the status of projects funded under title IX no later than one year after the date of the enactment of the title, and once every two years thereafter through 2012.

Sec. 904. Clean Coal Centers of Excellence

Requires the Secretary to award competitive, merit-based grants to universities for the establishment of Centers of Excellence for Energy Systems of the Future. Requires that the Secretary provide grants to universities that can show the greatest potential for advancing new clean coal technologies.

TITLE X— IMPROVED COORDINATION AND MANAGEMENT OF CIVILIAN SCIENCE AND TECHNOLOGY PROGRAMS

Sec. 1001. Improved Coordination and Management of Civilian Science and Technology Programs

Amends the Department of Energy Organization Act to elevate the position of Director of the Office of Science to an Assistant Secretary. Increases the overall number of Assistant Secretaries in the Department from six to eight, and expresses the Sense of Congress that leadership for departmental missions in nuclear energy should be at the Assistant Secretary level.